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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/730,889	12/10/2003	Tetsurou Harada	ASAIN0134	5149	
24203 75	24203 7590 02/24/2005		EXAMINER		
GRIFFIN & SZIPL, PC SUITE PH-1 2300 NINTH STREET, SOUTH ARLINGTON, VA 22204			LE, JO	LE, JOHN H	
			ART UNIT	PAPER NUMBER	
			2863		
			DATE MAILED: 02/24/2005	DATE MAILED: 02/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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miner. CFR 1.121(d). TO-152.	
l Stage	

	Application No.	Applicant(s)				
	10/730,889	HARADA ET AL.				
Office Action Summary	Examiner	Art Unit				
	John H. Le	2863				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 25 Ja	nuary 2005.					
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-4 and 6-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4 and 6-8</u> is/are rejected.	6)⊠ Claim(s) <u>1-4 and 6-8</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	۲.					
10)⊠ The drawing(s) filed on <u>10 December 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		•				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-152)				
S. Patent and Trademark Office						

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Response to Amendment

1. This office action is in response to applicant's amendment received on 01/25/2005.

Claims 1 and 7 have been amended.

Claim 5 has been cancelled.

Claim 8 has been added.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hu et al. (USP 5,929,324) in view of Karlon (USP 5,069,880) and Dosoretz et al. (USP 5,604,298).

Regarding claims 1, 3, 4, 7, and 8, Hu et al. disclose a method for inspecting leakage of a container (e.g. Col.5, lines 22-34, Col.6, lines 11-18), comprising: an ozone gas addition step of adding ozone gas to a higher pressure side of the inside and the outside of the container (e.g. Col.4, lines 1-20, Col.9, lines 9-34); an ozone concentration detection step of measuring an ozone concentration of a lower pressure side of the inside and the outside of the container (e.g. Col.4, lines 53-66); and a leakage determination step of determining presence of the leakage of the container based on a change in the ozone concentration (e.g. Col.7, lines 3-29).

Hu et al. fail to disclose a differential pressure generation step of generating a differential pressure between the inside and the outside of a container; and the leakage determination step has an ozone concentration comparison step of calculating a concentration difference between the ozone concentration and a predetermined ozone concentration, and an ozone concentration determination step of determining presence of leakage when the concentration difference is larger than a predetermined value.

Karlon discloses a differential pressure generation step of generating a differential pressure between the inside and the outside of a container; an ozone gas addition step of adding ozone gas to a higher pressure side of the inside and the outside of the container (e.g. Col.6, line 58-Col.7, line 11); an ozone concentration detection step of measuring an ozone concentration of a lower pressure side of the inside and the outside of the container (e.g. Col.9, line 53-Col.10, line 6, Col.10, lines 50-51).

Regarding claims 2 and 7, Karon discloses the differential pressure generation step has a container storage step of storing the container in a storage container (e.g. Col.5, lines 50-67), and a container pressurization/pressure reduction step of operating one of pressurization and pressure reduction for one of the container and the storage container (e.g. Col.8, lines 38-51).

Regarding claim 6, Karon discloses the container is used as a container in which liquid is sealed (e.g. Col.3, lines 25-33).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform a differential pressure generation step of generating a

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differential pressure between the inside and the outside of a container as taught by Karlon in a method for inspecting leakage of Hu et al. for the purpose of providing an ozone generation system that teaches the method to employ very high pressure within the generator to produce ozone using less energy, up to 50% less, dependent on pressure and temperature (Karlon, Col.5, lines 6-10).

Dosoretz et al. disclose the leakage determination step has an ozone concentration comparison step of calculating a concentration difference between the ozone concentration and a predetermined ozone concentration, and an ozone concentration determination step of determining presence of leakage when the concentration difference is larger than a predetermined value (Col.2, lines 55-65, Col.4, lines 35-52).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to inform the leakage determination step has an ozone concentration comparison step of calculating a concentration difference between the ozone concentration and a predetermined ozone concentration, and an ozone concentration determination step of determining presence of leakage when the concentration difference is larger than a predetermined value as taught by Dosoretz et al. in a method for inspecting leakage of Hu et al. in view of Karlon for the purpose of providing an apparatus and a method for detecting ozone leak.

Conclusion

4. Specifically Dosoretz et al. has been added to second ground of rejection.

Contact Information

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5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John H Le whose telephone number is 571-272-2275.

The examiner can normally be reached on 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John E Barlow can be reached on 571-272-2269. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

John H. Le

Patent Examiner-Group 2863

February 11, 2005

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